

Notice of Allowability

Application No.

10/630,750

Examiner

Christopher Verdier

Applicant(s)

ARNES ET AL.

Art Unit

3745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☐ This communication is responsive to ____.
2. ☒ The allowed claim(s) is/are 1-12.
3. ☒ The drawings filed on 31 July 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: ____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date ____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date ____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date ____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other ____

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Besha, Attorney of Record, on June 24, 2004.

The application has been amended as follows:

In the Specification:

In paragraph 17, line 16, "an" has been changed to -- a --.

In paragraph 18, line 25, after "inches", -- and the airfoil has a root radius of 29.255 inches at the trailing edge -- has been inserted.

In paragraph 22, the line after "TABLE I", -- X -- has been inserted such that it is centered with respect to the first column of numerical values.

In paragraph 22, the line after "TABLE I", -- Y -- has been inserted such that it is centered with respect to the second column of numerical values.

In paragraph 22, the line after "TABLE I", -- Z -- has been inserted such that it is centered with respect to the third column of numerical values.

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On pages 11-37, before the first line, -- X -- has been inserted such that it is centered with respect to the first column of numerical values.

On pages 11-37, before the first line, -- Y -- has been inserted such that it is centered with respect to the second column of numerical values.

On pages 11-37, before the first line, -- Z -- has been inserted such that it is centered with respect to the third column of numerical values.

In the abstract, line 8, "said" has been changed to -- the --.

The change to paragraph 17 and the abstract have been made to correct informalities. The insertion to paragraph 18 has been made to provide antecedent basis in the specification for the corresponding limitation in claim 3. The above changes to paragraph 22 and pages 11-37 have been made to provide column headings for the X, Y, and Z coordinates.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

None of the prior art of record discloses or suggests a turbine nozzle including an airfoil having the specific profile with Cartesian coordinate values of X, Y, and Z set forth in Table I. Such a profile provides for improved aerodynamic efficiency through the turbine stage, and improved aerodynamic and mechanical loading.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Prior Art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Humanchuk '853 and Jacks are cited to show turbine nozzles having profiles with Cartesian coordinate values of X, Y, and Z.

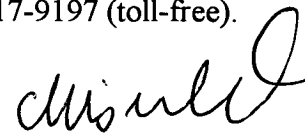
Wang, By, Humanchuk '434, and Arness are cited to show turbine bucket airfoils having profiles with Cartesian coordinate values of X, Y, and Z.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Verdier whose telephone number is (703)-308-2638. The examiner can normally be reached on Monday-Friday from 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward K. Look can be reached on (703) 308-1044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C.V.
June 24, 2004


Christopher Verdier
Primary Examiner
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